OBLON, SPIVAK, ET AL DOCKET #:200655US20 NV: SAMUEL G. ARMATO ET AL SHEET 1 OF 16

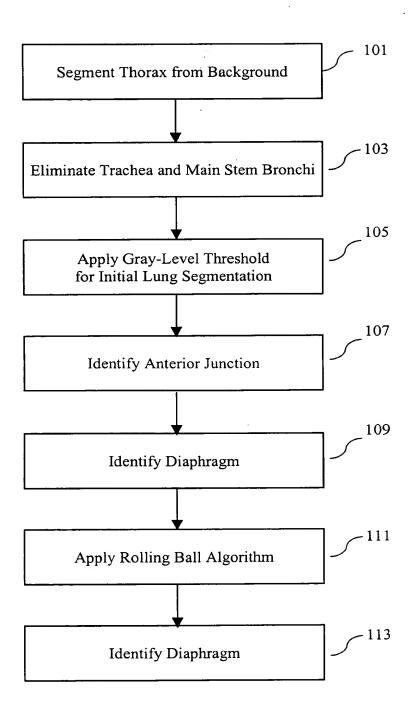


FIG. 1

OBLON, SPIVAK, ET AL DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL SHEET <u>2</u> OF <u>16</u>

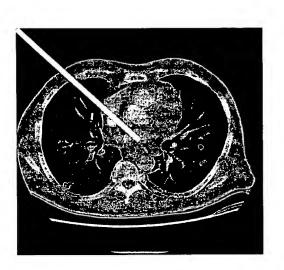


FIG. 2A

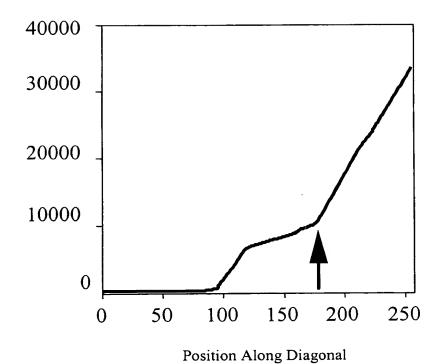


FIG. 2B

OBLON, SPIVAK, ET AL
DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL
SHEET 3 OF 16

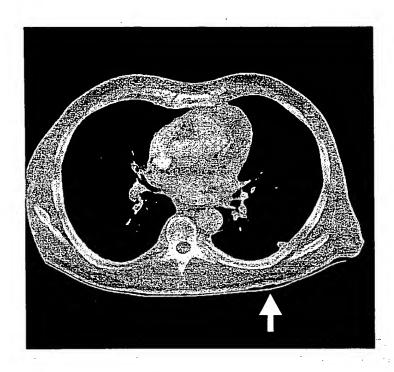


FIG. 3A

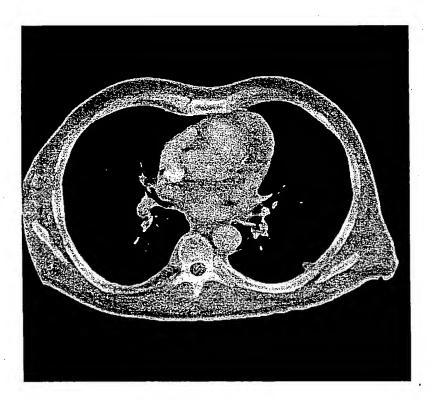


FIG. 3B

OBLON, SPIVAK, ET AL
DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL
SHEET 4 OF 16

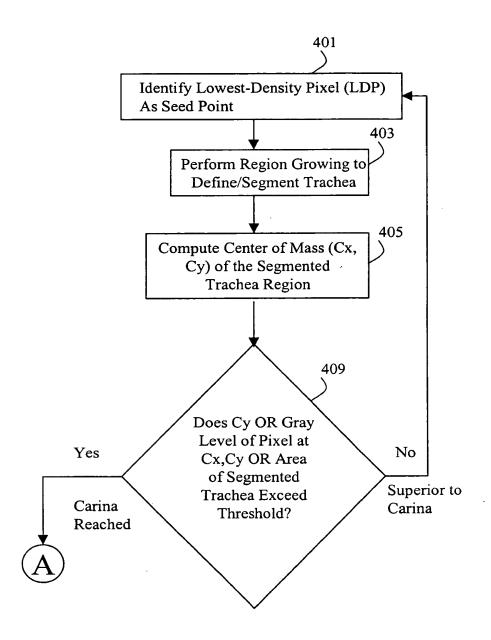


FIG. 4A

SHEET <u>5</u> OF <u>16</u> 419 \sim 411 Identify Seed Point Within Identify Seed Point Within Second First Bronchus **Bronchus** 421ر 413 Perform Region Growing to Perform Region Growing to Define/Segment First Bronchus Define/Segment Second Bronchus 423 415 Compute Center of Mass (C1x,C1y) Compute Center of Mass (C2x,C2y) of Segmented First Bronchus Region of Segmented Second Bronchus Region 427 Does Cy1 or Cy2 Exceed No Threshold OR Does Number of Contour Pixels Reaching LDP Search Region Exceed Threshold? 429 Yes Terminate Segmentation of First Bronchus or Second **Bronchus**

OBLON, SPIVAK, ET AL DOCKET #:200655US20

INV: SAMUEL G. ARMATO ET AL

FIG. 4B

OBLON, SPIVAK, ET AL DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL SHEET 6 OF 16

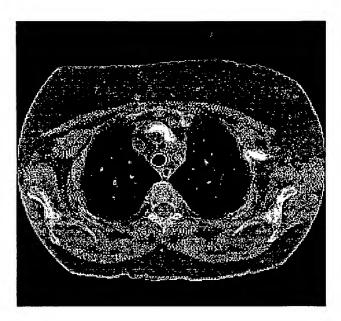


FIG. 5A



FIG. 5B

OBLON, SPIVAK, ET AL
DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL
SHEET <u>7</u> OF <u>16</u>

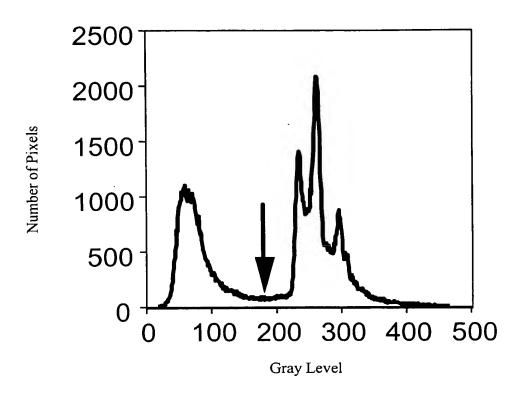


FIG. 6A

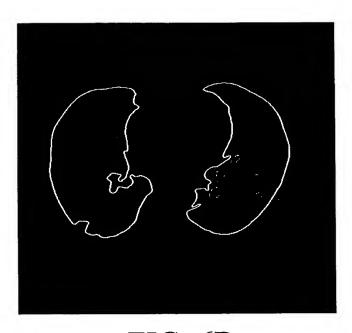


FIG. 6B

OBLON, SPIVAK, ET AL DOCKET #:200655US20 INV: SAMUEL G. ARMATO ET AL SHEET <u>8</u> OF <u>16</u>

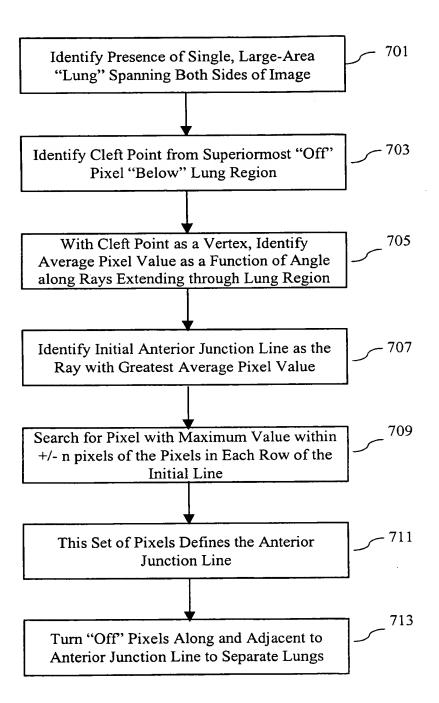


FIG. 7

OBLON, SPIVAK, ET AL
DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL
SHEET 9 OF 16

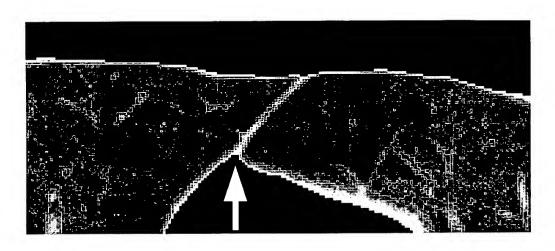


FIG. 8A

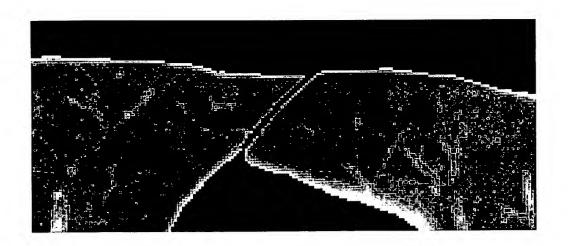


FIG. 8B

OBLON, SPIVAK, ET AL
DOCKET #:200655US20
NV: SAMUEL G. ARMATO ET AL
SHEET <u>10</u> OF <u>16</u>



FIG. 9

OBLON, SPIVAK, ET AL
DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL
SHEET 11 OF 16

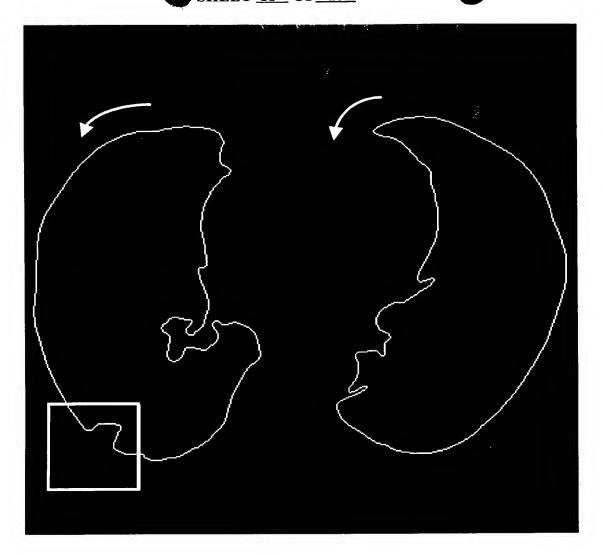


FIG. 10A

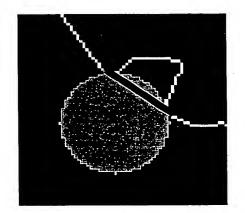


FIG. 10B

OBLON, SPIVAK, ET AL DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL SHEET 12 OF 16

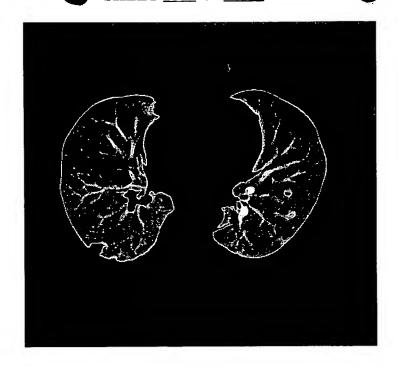


FIG. 11A

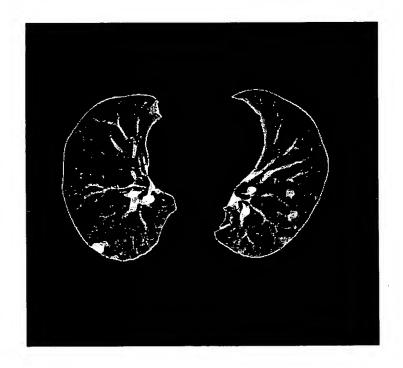


FIG. 11B

OBLON, SPIVAK, ET AL
DOCKET #:200655US20
INV: SAMUEL G. ARMATO ET AL
SHEET 13 OF 16

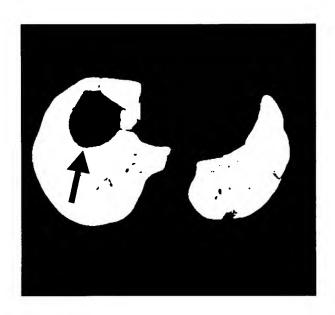


FIG. 12A

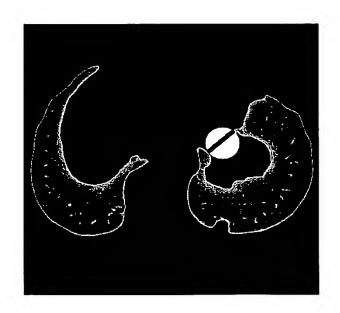


FIG. 12B

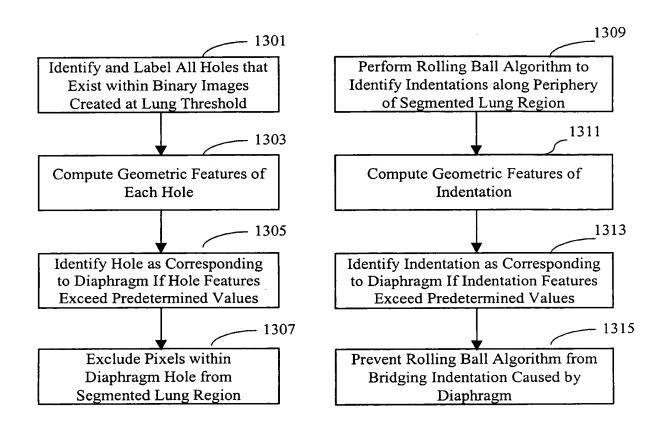


FIG. 13A

FIG. 13B

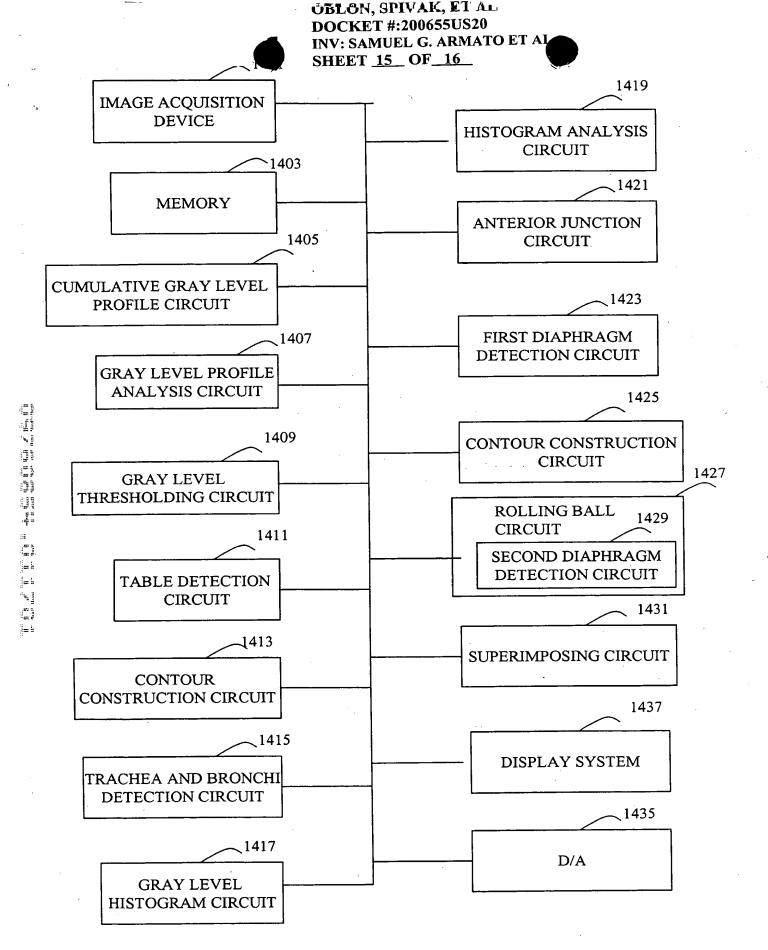


FIG. 14



OBLON, EPIVAK, ET AL DOCKET #:200655US20 INV: SAMUEL G. ARMATO ET A SHEET 16 OF 16

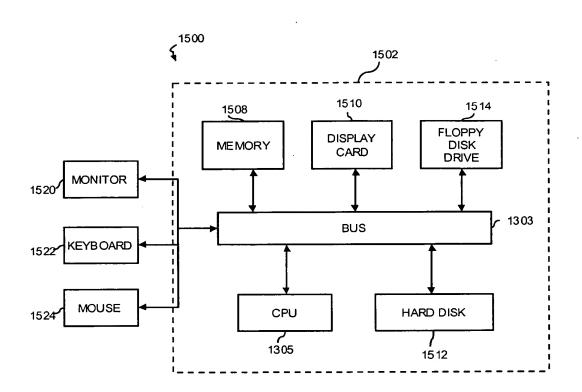


FIG. 15